

JVC

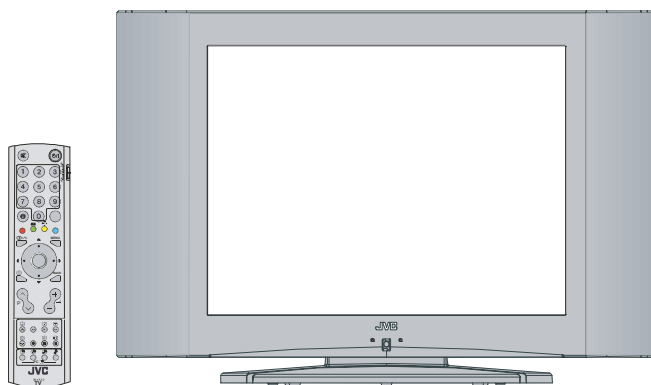
SCHEMATIC DIAGRAMS

WIDE LCD PANEL TELEVISION

**LT-20E50SU,
LT-20E50SU_{/Z},
LT-20E50SJ**

CD-ROM No.SML200503

InteriArt



LT-20E50SU, LT-20E50SU/z, LT-20E50SJ

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the \triangle symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : [Ω]
- K : [k Ω]
- M : [M Ω]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

●Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3)Coils

- No unit : [μ H]
- Others : As specified

(4)Power Supply



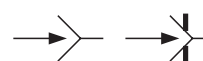
-  : B1  : B2 (12V)
-  : 9V  : 5V

* Respective voltage values are indicated





(5)Test point

-  : Test point
-  : Only test point display



(6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

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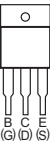
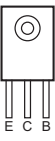
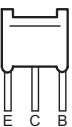
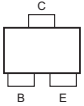
LED PWB PATTERN


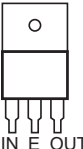
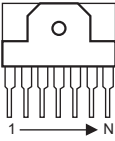
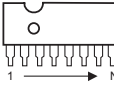
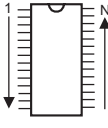
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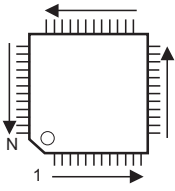
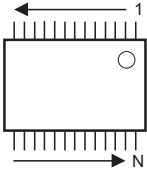
USING P.W. BOARD

P.W.B ASS'Y name	P.W.B ASS'Y number
MAIN P.W. BOARD	VE-20177794
SIDE CONTROL PWB	VE-20180094
LED PWB	VE-20180117
AV & HEADPHONE PWB	VE-20180067

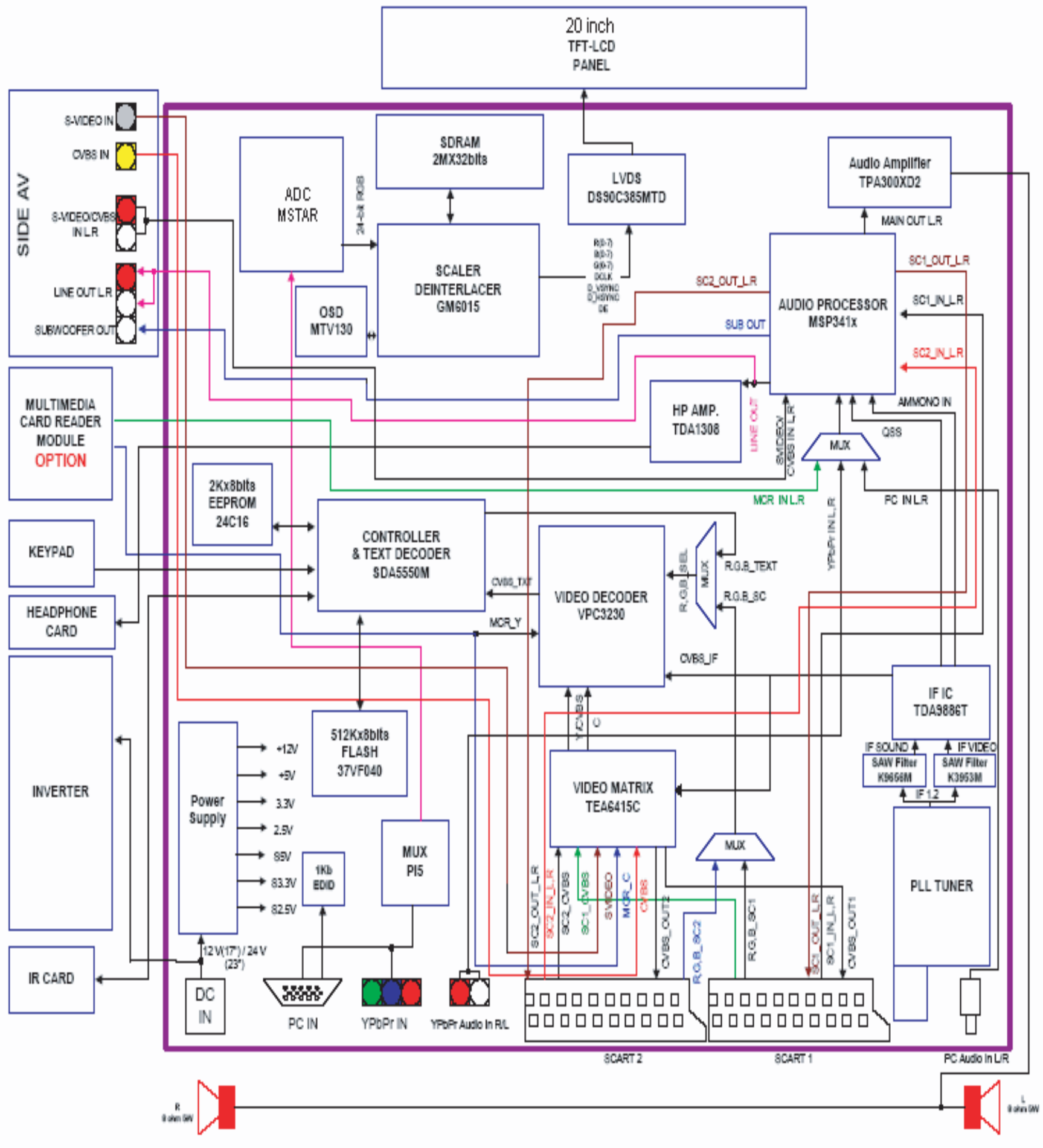
SEMICONDUCTOR SHAPES

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

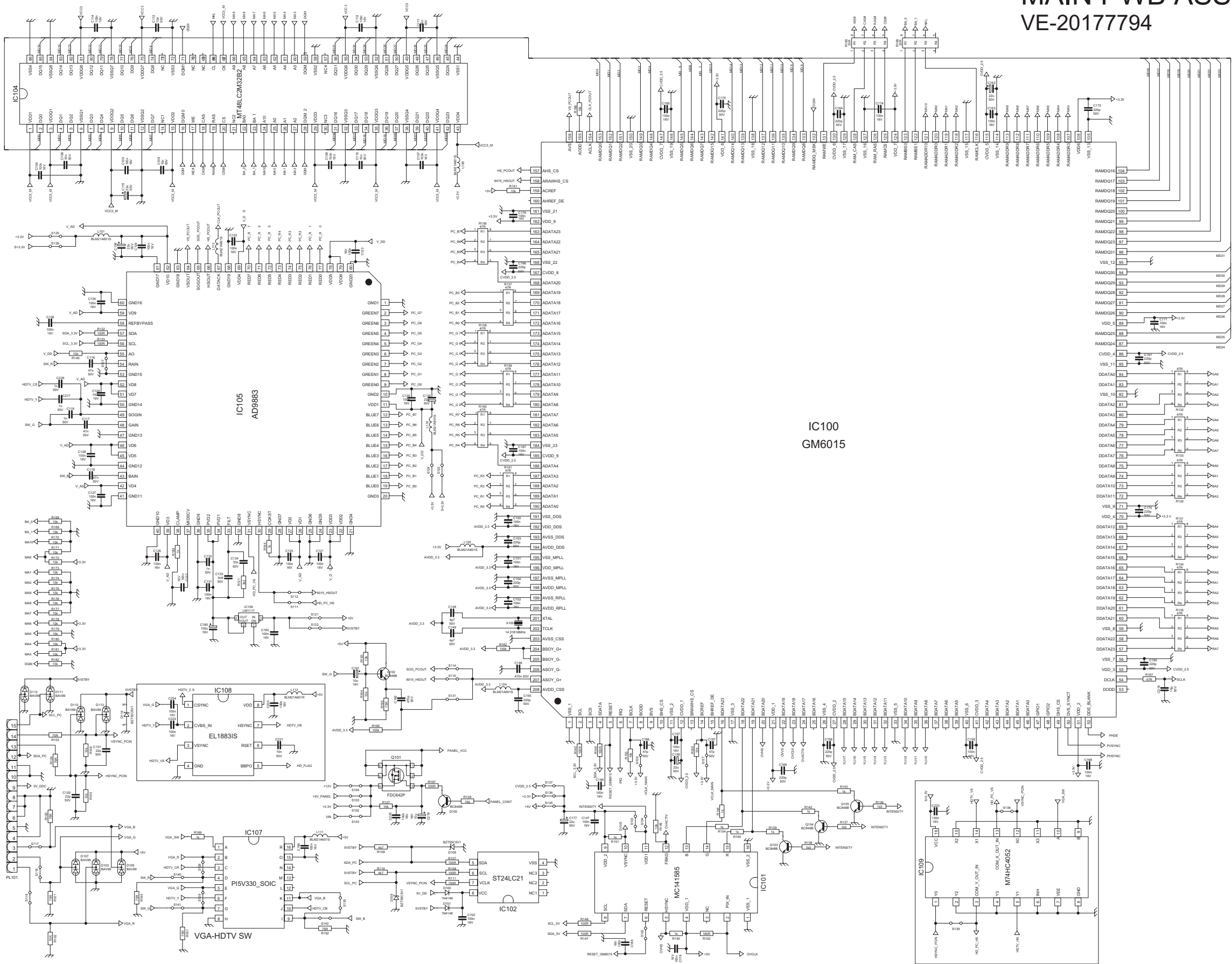
TOP VIEW		
		

BLOCK DIAGRAM

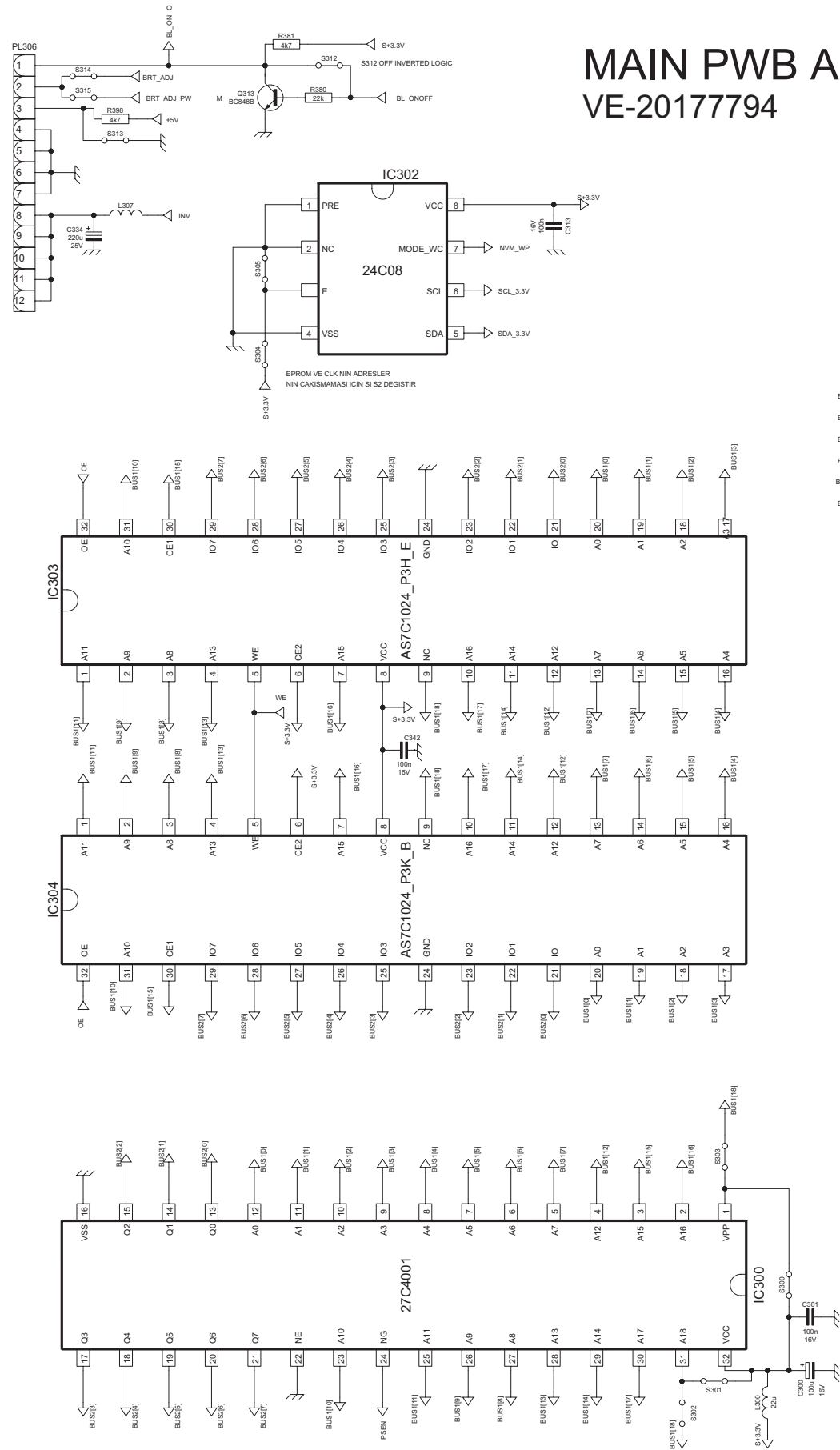


CIRCUIT DIAGRAMS
MAIN PWB CIRCUIT DIAGRAM (1/8)

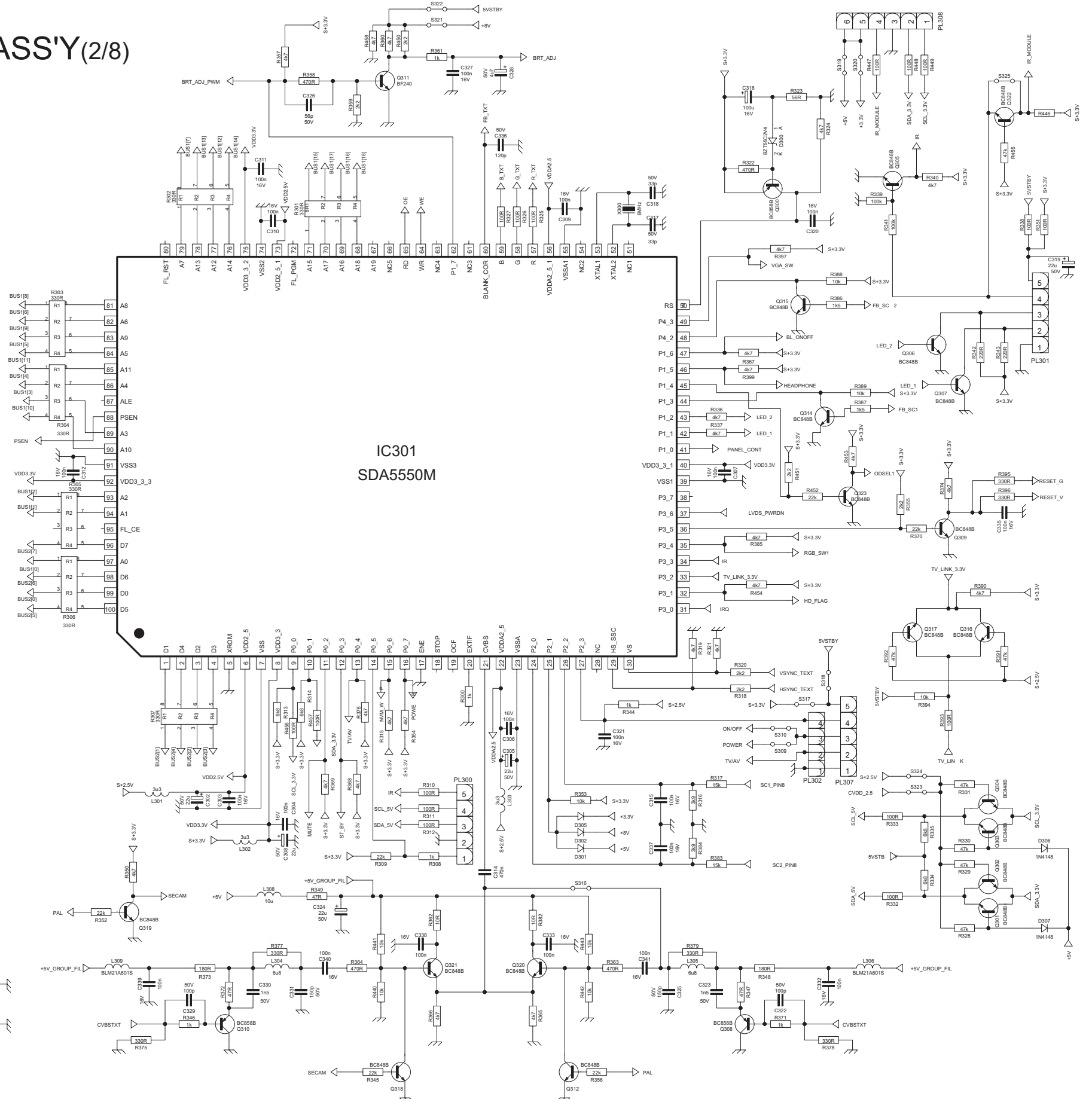
MAIN PWB ASS'Y(1/8)
VE-20177794



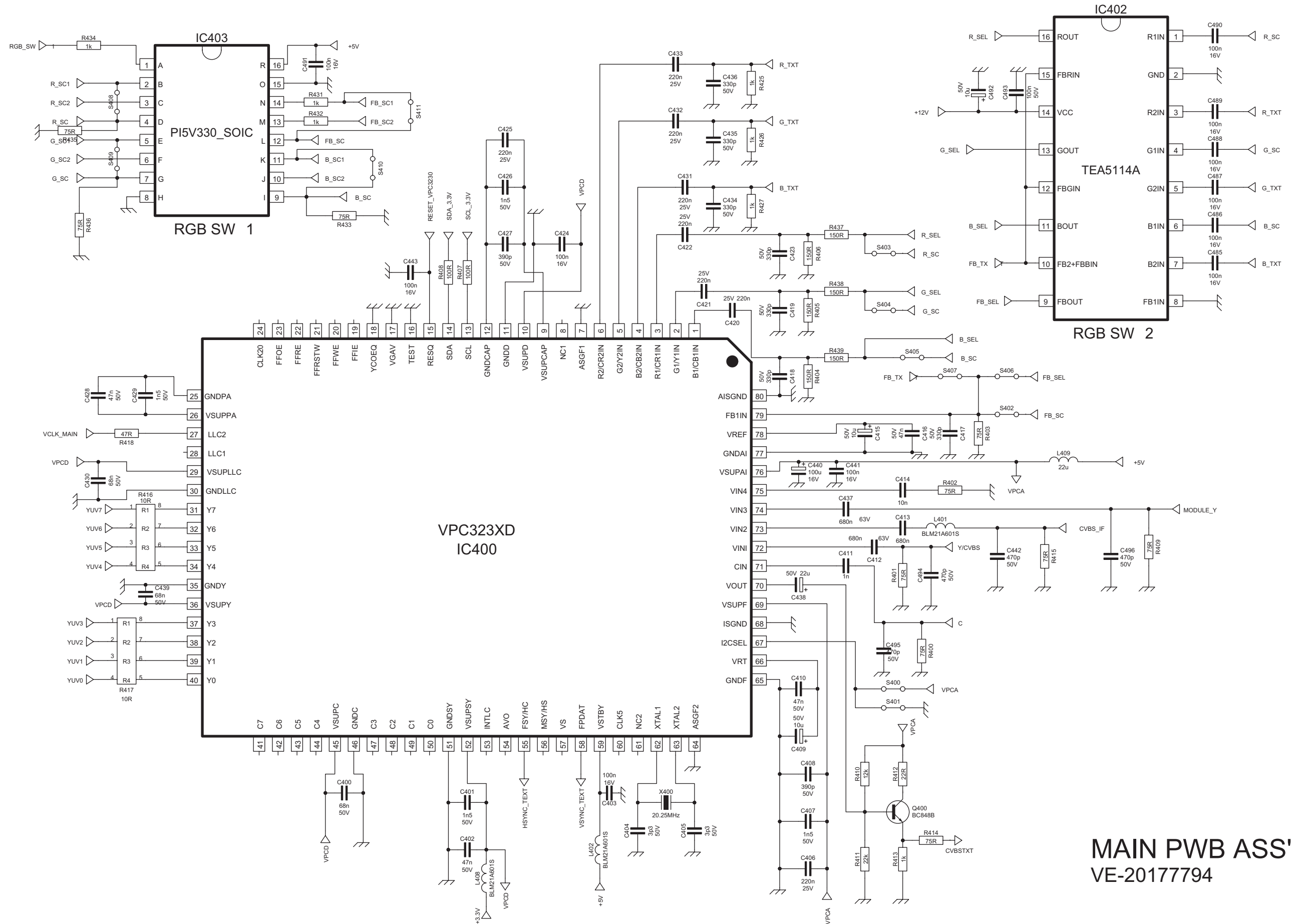
MAIN PWB CIRCUIT DIAGRAM (2/8)



MAIN PWB ASS'Y(2/8)
VE-20177794

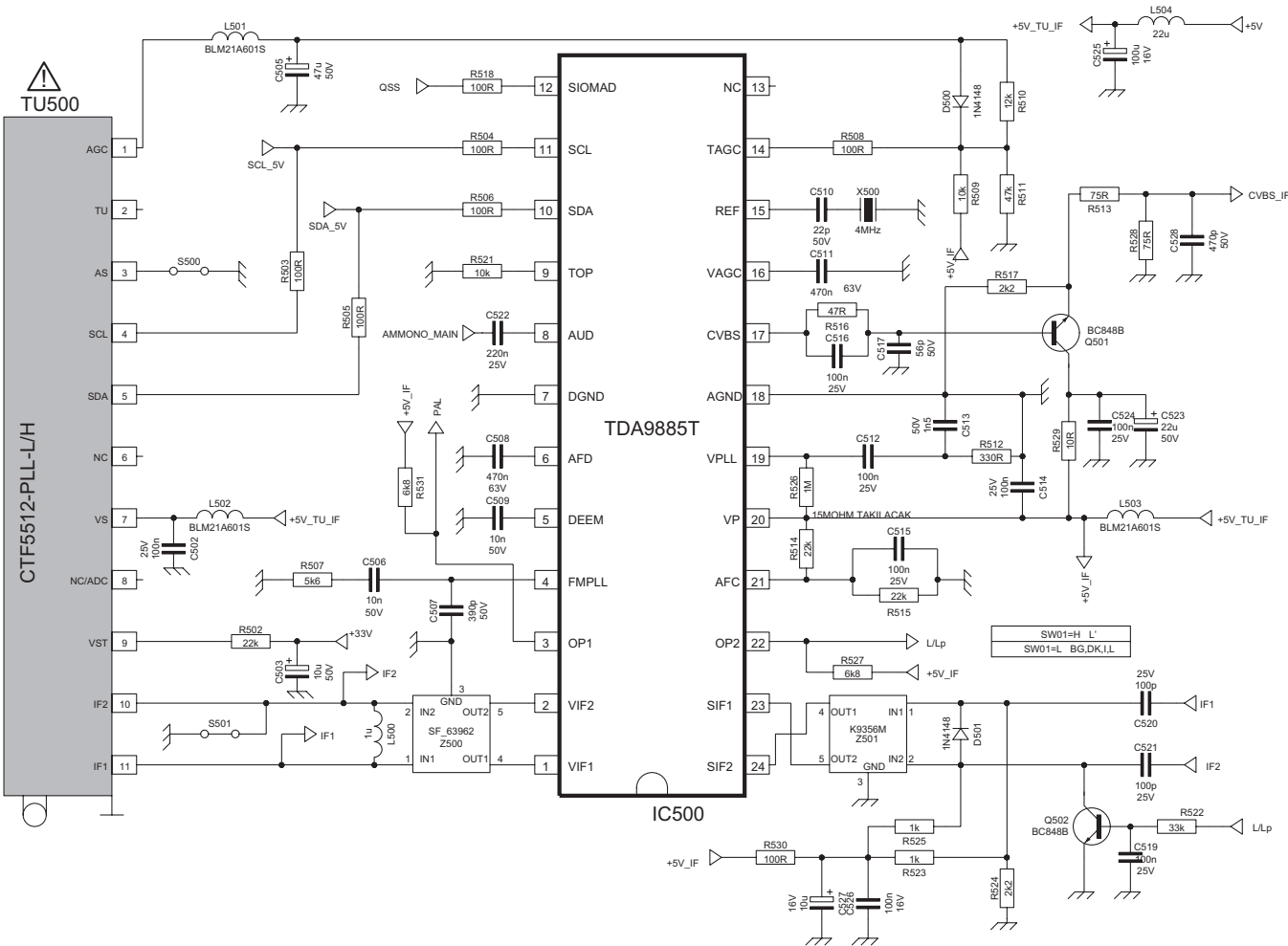


MAIN PWB CIRCUIT DIAGRAM (3/8)



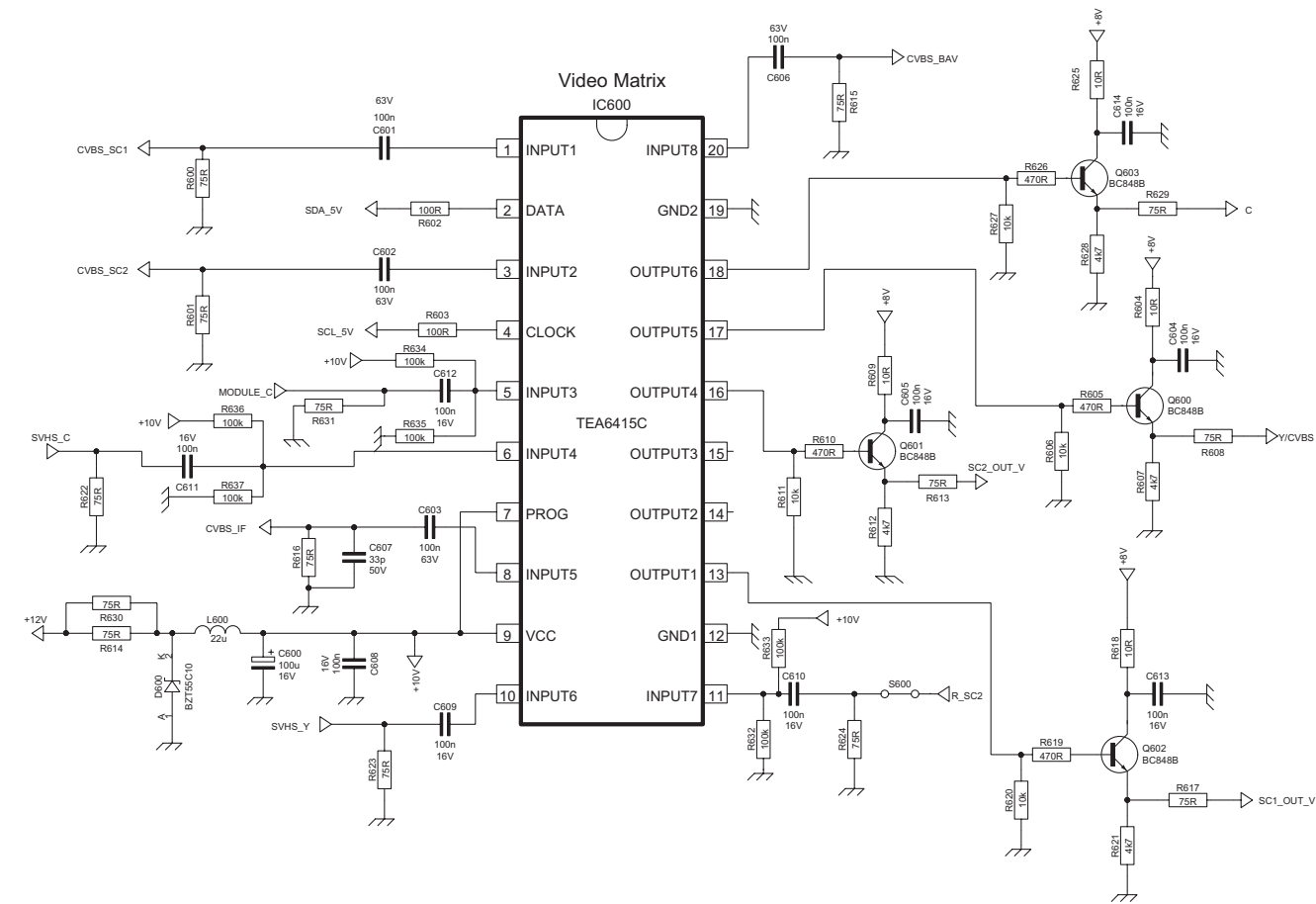
MAIN PWB ASS'Y(3/8)
VE-20177794

MAIN PWB CIRCUIT DIAGRAM (4/8)



MAIN PWB ASS'Y(4/8)
VE-20177794

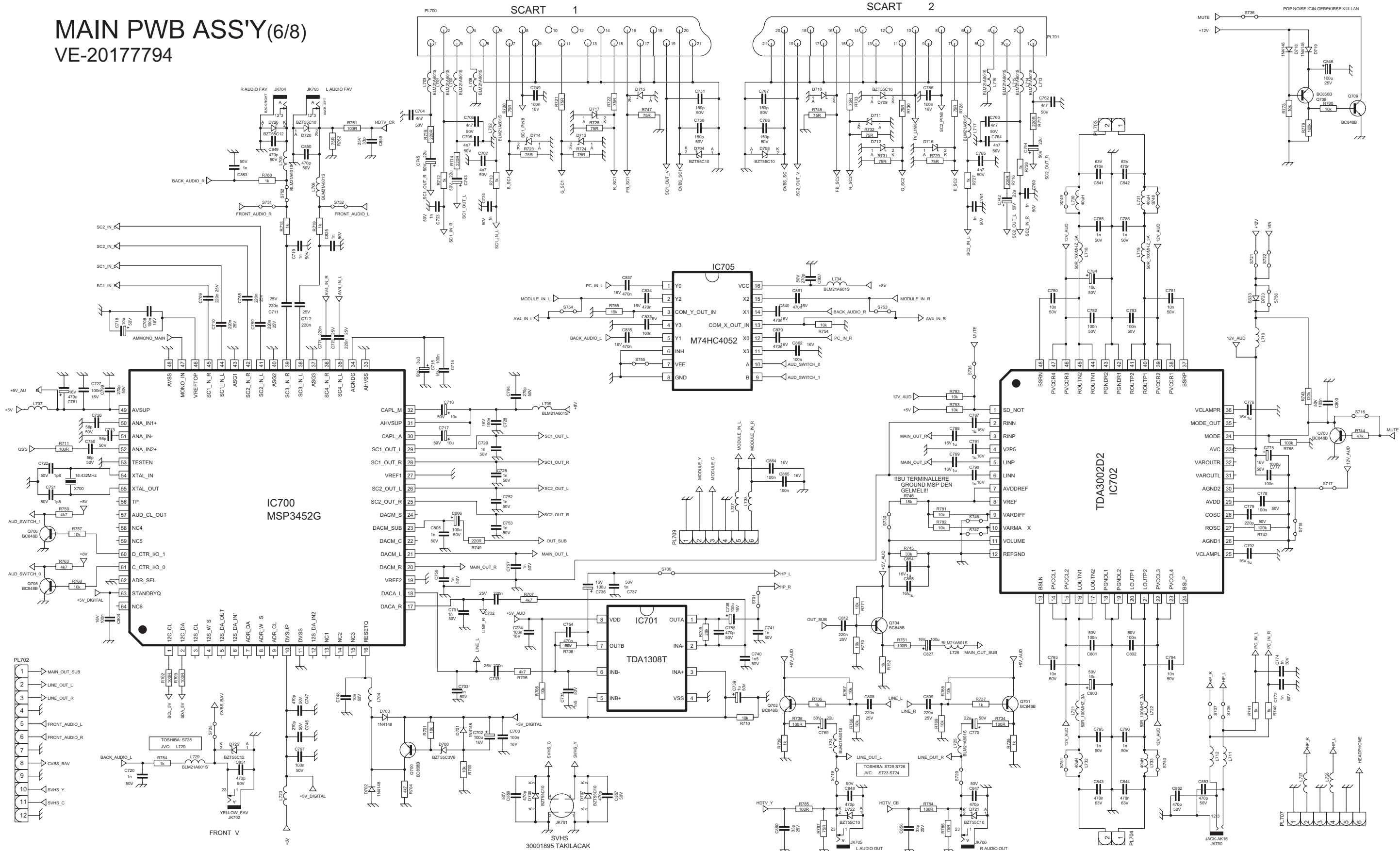
MAIN PWB CIRCUIT DIAGRAM (5/8)

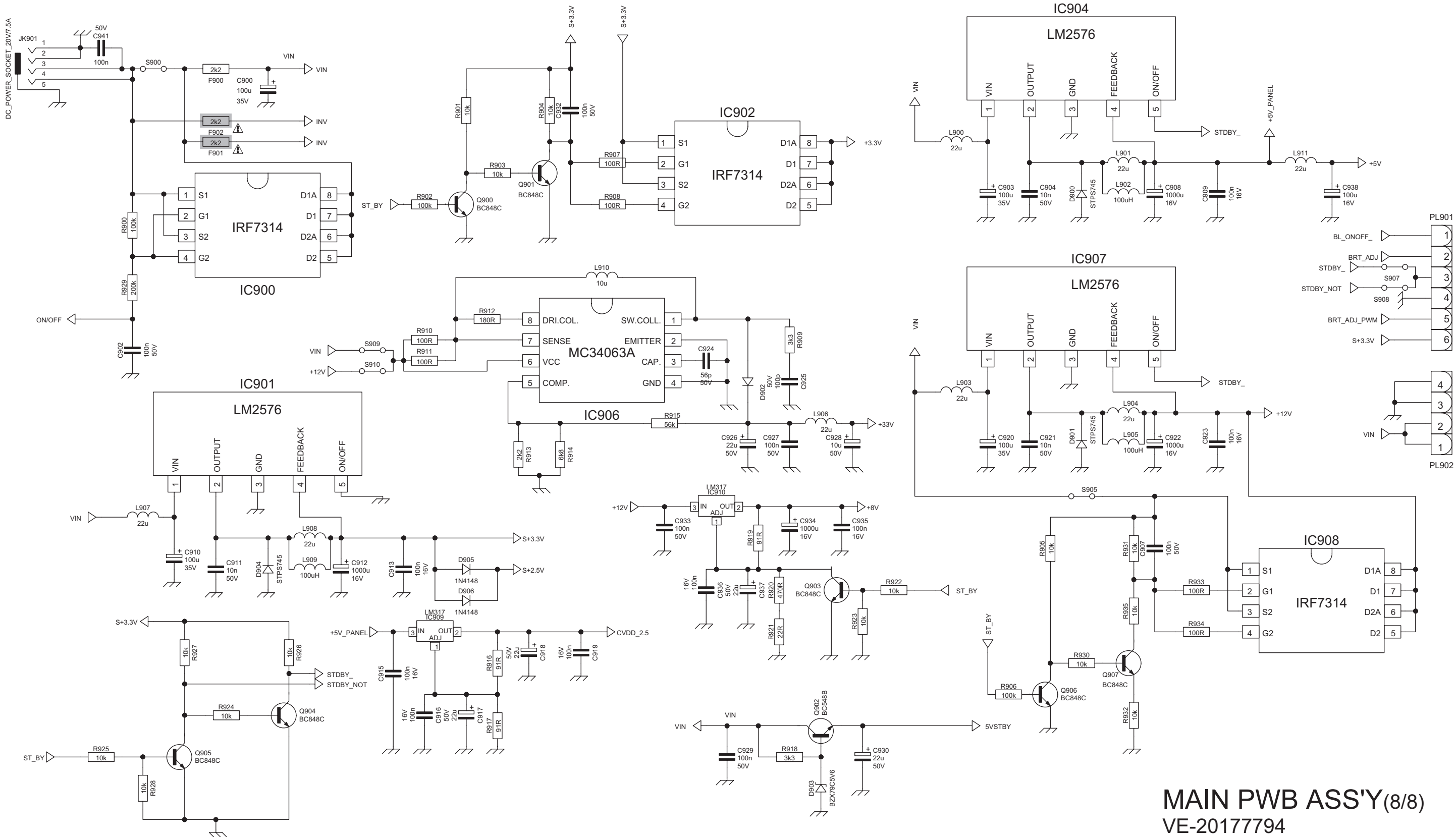


MAIN PWB ASS'Y(5/8)
VE-20177794

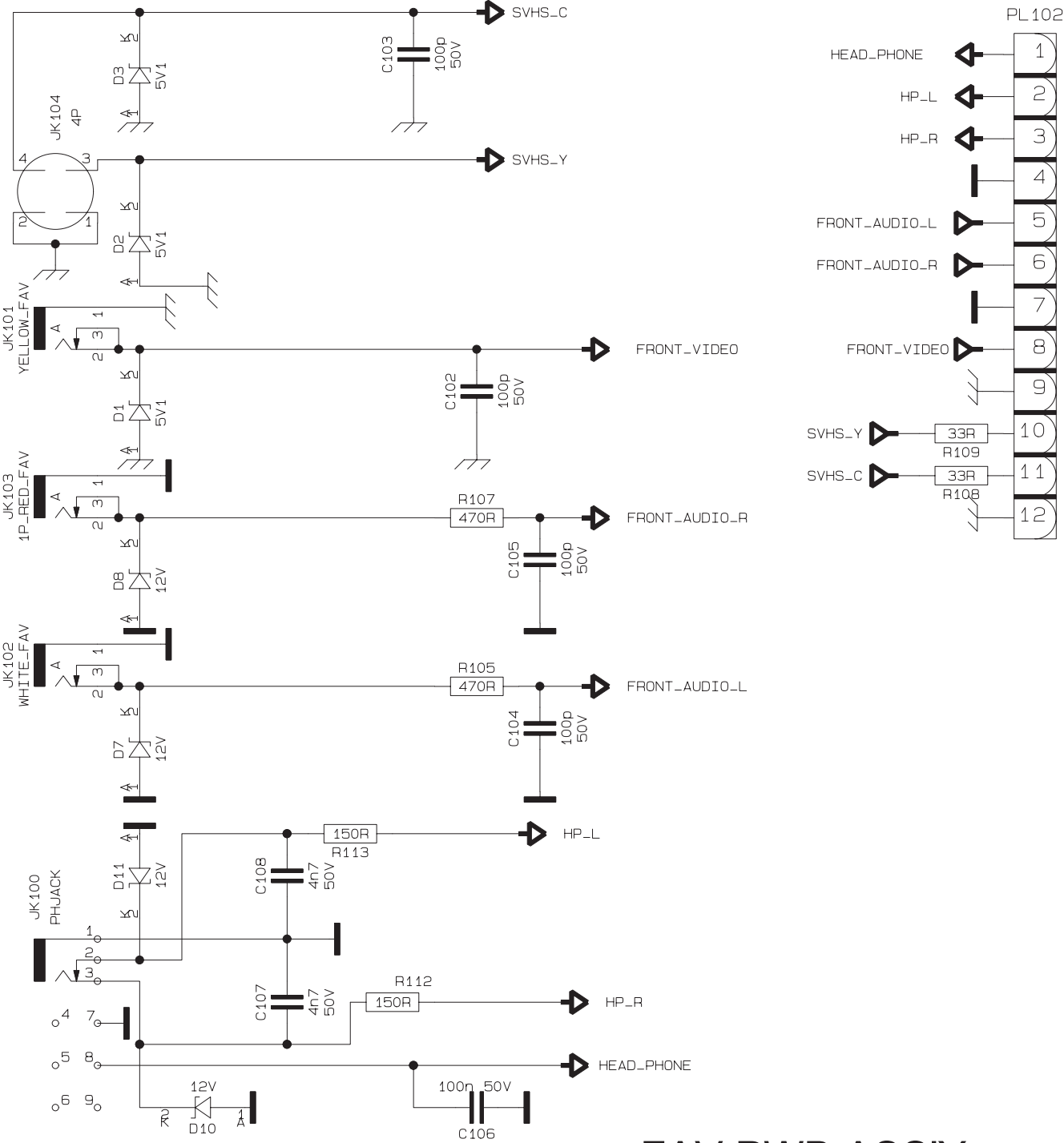
MAIN PWB ASS'Y(6/8)

VE-20177794





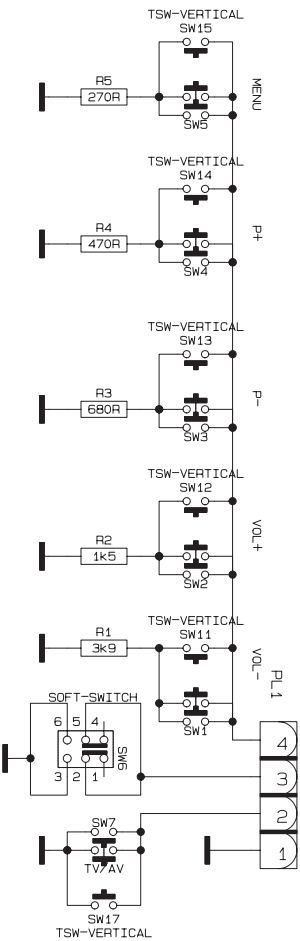
FAV PWB CIRCUIT DIAGRAM



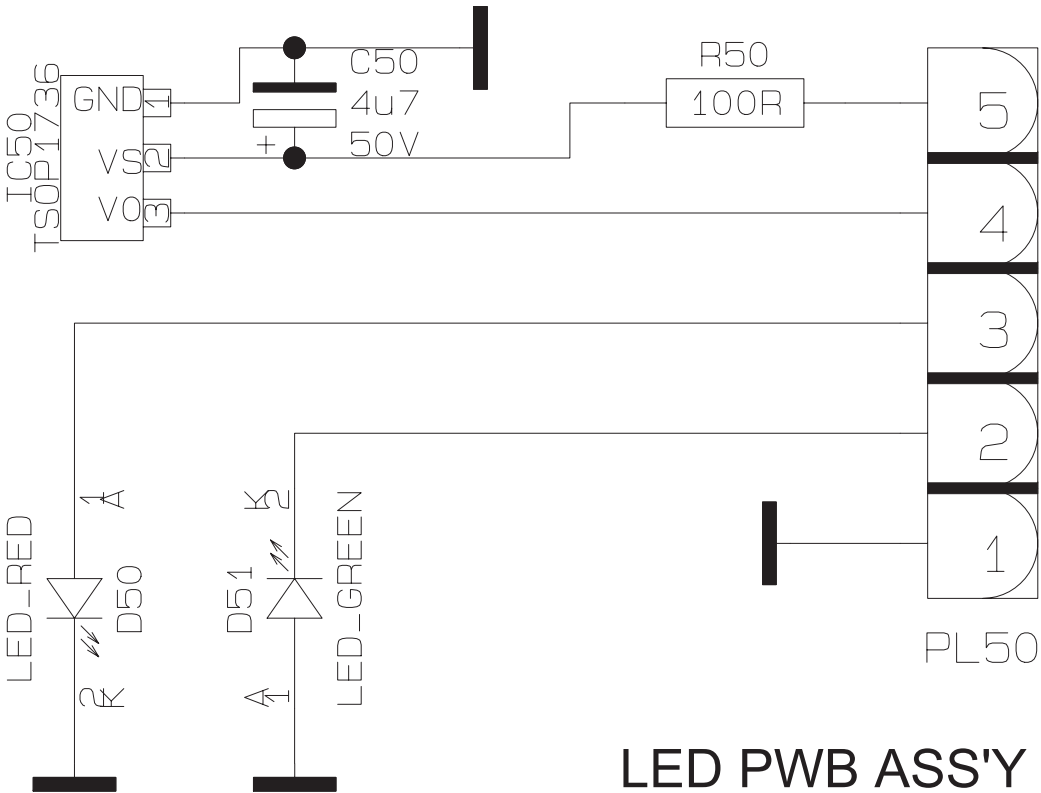
FAV PWB ASS'Y
VE-20180067

SIDE CONTROL PWB CIRCUIT DIAGRAM

SIDE CONTROL
PWB ASS'Y
VE-20180094

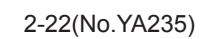


LED PWB CIRCUIT DIAGRAM



LED PWB ASS'Y
VE-20180117

MAIN PWB PATTERN





Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA235)



Printed in Japan
VPT